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Review of the Meziadin River Fishway and Upper Nass Biological Programs, 1991

D.R. Southgate

Department of Fisheries and Oceans
Prince Rupert, British Columbia
V7J 1G8

April 1992

Canadian Data Report of
Fisheries and Aquatic Sciences No. 870

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ABSTRACT

Southgate D. R. 1992. Review of the Meziadin River Fishway and Upper Nass Biological Programs, 1991. Can. Rep. Fish. Aquat. Sci. iii + 48p.

This data report contains all the daily and cumulative counts for all salmon species and steelhead trout passing through the Meziadin River Fishway. Age, sex and length information for sockeye sampled at the Meziadin Fishway, Bonnie Creek, Bowser and Damdochax Lakes is also presented.

In 1991, 230,132 large sockeye and 2,425 jack sockeye were enumerated at the Meziadin Fishway. In addition, 525 large chinook, 49 jack chinook, 132 coho and 2 steelhead were counted.

Estimates for the sockeye escapement for the Upper Nass systems are also presented.

RÉSUMÉ

Southgate D.R. 1992. Review of the Meziadin River and Upper Nass Biological Programs, 1991. Can. Rep. Fish. Aquat. Sci. iii 48p.

Le présent rapport porte sur les denombrements quotidiens et cumulatifs de toutes les espèces de saumon et de truite arc-en-ciel anadrome qui empruntent la passe migratoire de la riviere Meziadin. Il contient également des données sur l'age, le sexe et la longuer des saumons rouges échantillonnes à la passe migratoire de Meziadin, a Bonnie Creek, et aux lacs Bowser et Damdochax.

En 1991, on a denombré, dans la passe migratoire de Meziadin, 230,132 gros saumons rouges et 2425 jeunes saumons rouges, de meme que 525 gros quinnats, 49 jeunes quinnats, 132 coho, et 2 truites arc-en-ceil anadromes.

On presente aussi des estimations de l'echappee de saumon rouge dans le réseau supérieur de la Nass.

Introduction

The Meziadin River flows into the Nass River approximately 180 km from where the Nass River flows into Portland Inlet in Statistical Area 3 (see Figure 1). The fishway is situated 1 km from the confluence of the Meziadin and Nass Rivers. The fishway was constructed to bypass the Victoria Falls and allow returning adult salmon better access to spawning grounds on Meziadin Lake and tributaries. In 1991 there were 230,132 large sockeye counted at the fishway, which represented 85% of the estimated escapment of 269,848 large sockeye through the Nass Test Fishery.

Methods

The Meziadin Fishway was designed to operate either unmanned or accommodate enumeration facilities and personnel. The trap was installed on July 9 and counting continued on a daily basis until Sept 5. In addition to the daily enumeration of all species migrating through the fishway, biological samples are taken from large sockeye using standard methods previously described by Southgate et al. (1988). In 1991, 1000 sockeye were sampled for age, length and sex.

The gravel build-up at the top end of the fishway had to be removed once again. In 1992 it is hoped that some method of diverting the gravel away from the fishway can be effected.

Vandalism and poaching continued to be an issue again in 1991. Fishery Officers charged several individuals for various offences stemming from the fishway. A more assertive approach will be instuted in 1992 in an attempt to curb some of the offences.

Upper Nass Survey

The annual survey of the upper Nass River sockeye systems was conducted between September 9 and September 11, 1991. These sockeye systems include Fred-Wright (Bonnie Creek and Upper Kwinagese), Bowser and Damdochax Lakes. Access to these areas is via float plane. Methods used in the survey have been previously described by Todd and Dickson (1970).

Bowser Lake

Bowser Lake, the second largest Nass sockeye producer was sampled on September 11 when 184 large sockeye were gillnetted for sampling. The population estimate is calculated through an analysis of scale characteristics described by Todd and Dickson (1970). The population estimate for 1991 was 14,018 sockeye.

Fred-Wright Lake

Fred-Wright Lake has two major spawning areas, Bonnie Creek and the upper Kwinagese River. Population estimates are derived from visual counts using the float plane and/or walking the system. There were 100 biological samples taken from Bonnie Creek, and the population estimate was 2,000 sockeye for 1991. Bonnie Creek was sampled on September 10.

Damdochax Lake

Damdochax Lake is usually the lowest producer of sockeye in the Nass River system, however Fred-Wright Lake had fewer sockeye in 1991. Population estimates are conducted by visual counts via float plane and walking. The estimate for 1991 was 3,000 sockeye. There were 124 sockeye sampled on September 9 ,1991.

Results

Water level measurements taken at the fishway during 1991 are recorded in Figure 2. The total large sockeye count for 1991 was 230,132 and 2425 jack sockeye. The chinook count for 1991 was 525 large and 49 jack chinook. There were also 132 coho and 2 steelhead counted through the fishway. The daily and accumulative counts for all species are presented in Tables I-III. Figures 3 and 4 give the daily count of sockeye and chinook in a graphed form.
In 1991, 1000 large sockeye were sampled at the fishway for biological information: sex, length, fin-clip and scales. Biological samples were also taken during the upper Nass survey. The information is presented in Tables IV through VII. The age and length compostion for all the systems is presented in Tables VIII and IX.

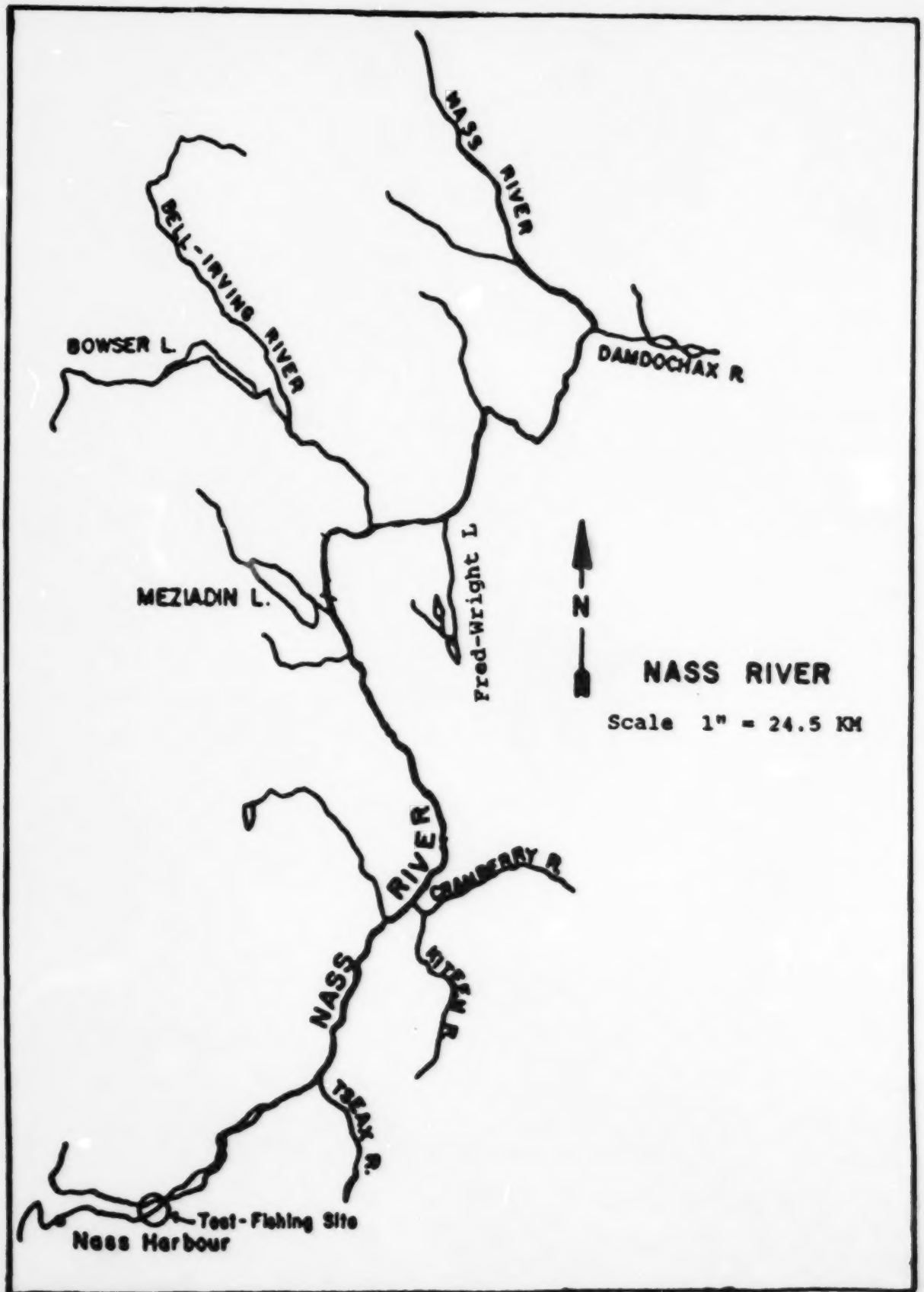

Figure 1. Location of Meziadin, Bowser, Damdochax and Fred-Wright lake's in the Nass River drainage.

Figure 2. Meziadin water levels, 1991.

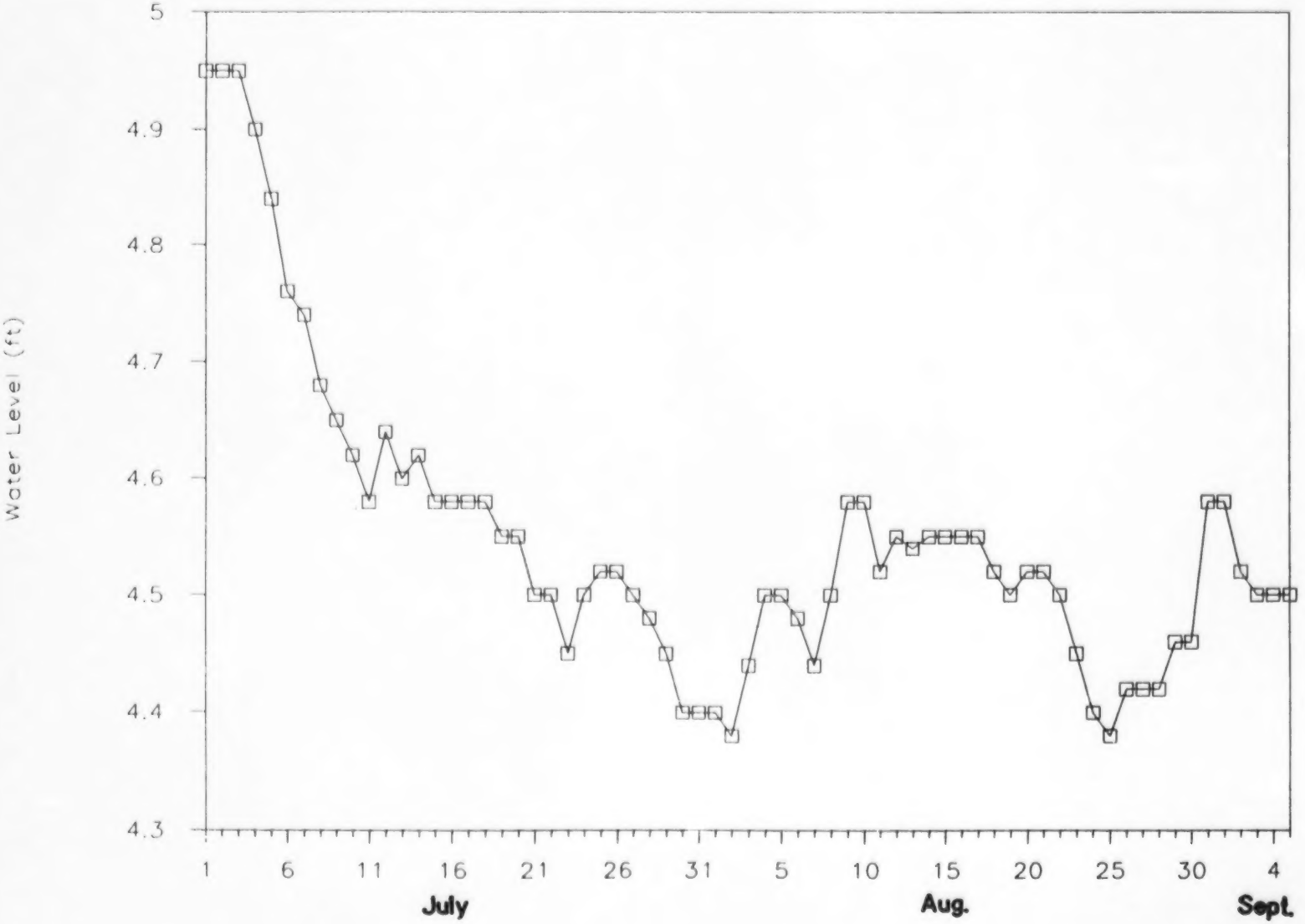

Table I

Daily and cumulative counts of large and jack sockeye, 1991.

Date		Jk. Sockeye Daily	Jk. Sockeye Cumulative	Lg. Sockeye Daily	Lg. Sockeye Cumulative
July	9			8	8
	10			16	24
	11			50	74
	12	1	1	261	335
	13	2	3	640	975
	14	0	3	946	1921
	15	0	3	5240	7161
	16	6	9	34998	42159
	17	15	24	38390	80549
	18	2	26	16052	96601
	19	44	70	11357	107958
	20	21	91	8523	116481
	21	35	126	12955	129436
	22	43	169	9962	139398
	23	67	236	9243	148641
	24	53	289	4967	153608
	25	19	308	2061	155669
	26	30	338	1567	157236
	27	24	362	2031	159267
	28	54	416	2230	161497
	29	35	451	2054	163551
	30	48	499	2272	165823
	31	41	540	3150	168973
Aug	1	75	615	4420	173393
	2	45	660	2655	176048
	3	60	720	2953	179001
	4	34	754	1113	180114
	5	4	758	218	180332
	6	11	769	400	180732
	7	21	790	1036	181768
	8	35	825	2245	184013
	9	7	832	712	184725
	10	5	837	269	184994
	11	12	849	665	185659
	12	28	877	2414	188073
	13	72	949	3220	191293
	14	54	1003	2447	193740
	15	59	1062	2187	195927
	16	49	1111	1605	197532
	17	57	1168	1203	198735
	18	86	1254	1424	200159
	19	52	1306	1286	201445
	20	18	1324	521	201966
	21	21	1345	754	202720

Table I (cont')

Daily and cumulative counts of large and jack sockeye, 1991.

Date		Jk. Sockeye Daily	Jk. Sockeye Cumulative	Lg. Sockeye Daily	Lg. Sockeye Cumulative
	22	42	1387	839	203559
	23	38	1425	1232	204791
	24	60	1485	1528	206319
	25	62	1547	1583	207902
	26	40	1587	1862	209764
	27	20	1607	632	210396
	28	59	1666	1478	211874
	29	66	1732	2017	213891
	30	24	1756	1010	214901
	31	31	1787	534	215435
Sept	1	53	1840	1108	216543
	2	126	1966	4459	221002
	3	237	2203	4423	225425
	4	147	2350	3115	228540
	5	75	2425	1592	230132

Table II

Daily and cumulative counts of large and jack chinook, 1991.

Date	Jk. Chinook Daily	Jk. Chinook Cumulative	Lg. Chinook Daily	Lg. Chinook Cumulative
July 10			1	1
11			0	1
12			0	1
13			0	1
14			2	3
15			3	6
16			3	9
17	1	1	27	36
18	0	1	12	48
19	0	1	7	55
20	0	1	11	66
21	2	3	27	93
22	6	9	29	122
23	7	16	42	164
24	3	19	51	215
25	1	20	26	241
26	0	20	15	256
27	0	20	7	263
28	2	22	14	277
29	2	24	2	279
30	0	24	5	284
31	0	24	10	294
Aug 1	0	24	17	311
2	1	25	18	329
3	1	26	15	344
4	2	28	15	359
5	1	29	3	362
6	0	29	4	366
7	1	30	13	379
8	1	31	14	393
9	0	31	8	401
10	0	31	2	403
11	2	33	6	409
12	5	38	12	421
13	1	39	4	425
14	2	41	1	426
15	3	44	13	439
16	0	44	7	446
17	0	44	3	449
18	0	44	2	451
19	0	44	8	459
20	0	44	3	462
21	0	44	1	463

Table II (cont')

Daily and cumulative counts of large and jack chinook, 1991.

Date	Jk. Chinook Daily	Jk. Chinook Cumulative	Lg. Chinook Daily	Lg. Chinook Cumulative
Aug 22	0	44	2	465
23	0	44	2	467
24	1	45	2	469
25	1	46	4	473
26	0	46	9	482
27	0	46	5	487
28	0	46	2	489
29	0	46	1	490
30	0	46	5	495
31	0	46	0	495
Sept 1	1	47	4	499
2	0	47	11	510
3	1	48	7	517
4	1	49	5	522
5	0	49	3	525

Table III

Daily and cumulative counts of coho and steelhead, 1991.

Date	Coho		Steelhead	
	Daily	Cumulative	Daily	Cumulative
Aug 7	2	2		
8	0	2		
9	0	2		
10	0	2		
11	0	2		
12	0	2		
13	0	2		
14	0	2		
15	0	2		
16	3	5		
17	2	7		
18	1	8		
19	4	12		
20	0	12		
21	0	12		
22	1	13		
23	0	13		
24	3	16		
25	2	18		
26	5	23		
27	3	26		
28	4	30		
29	3	33		
30	4	37		
31	0	37		
Sept 1	7	44		
2	12	56		
3	32	88	1	1
4	23	111	1	2
5	21	132	0	2

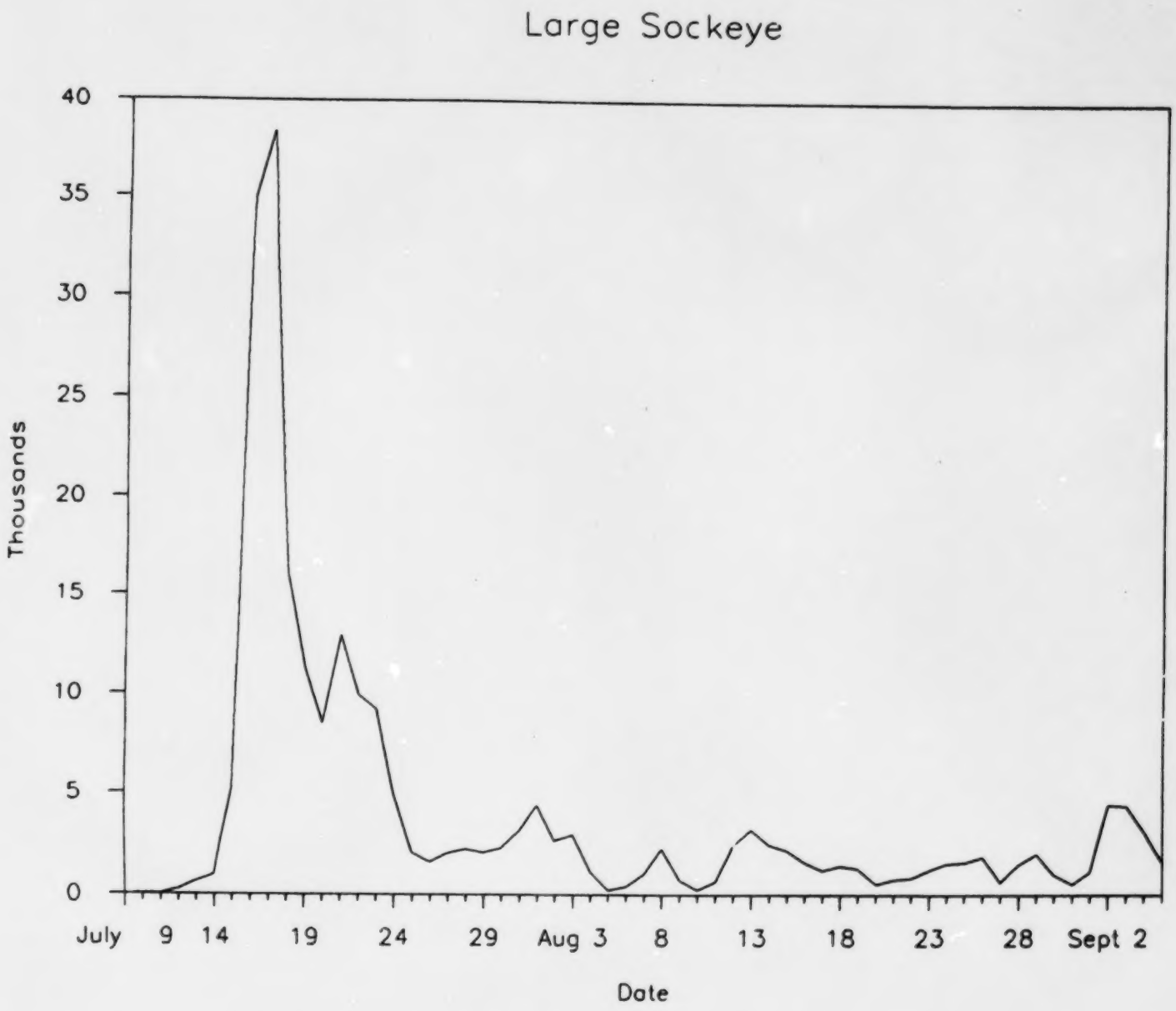

Figure 3. Daily Meziadin Fishway counts of large sockeye, 1991.

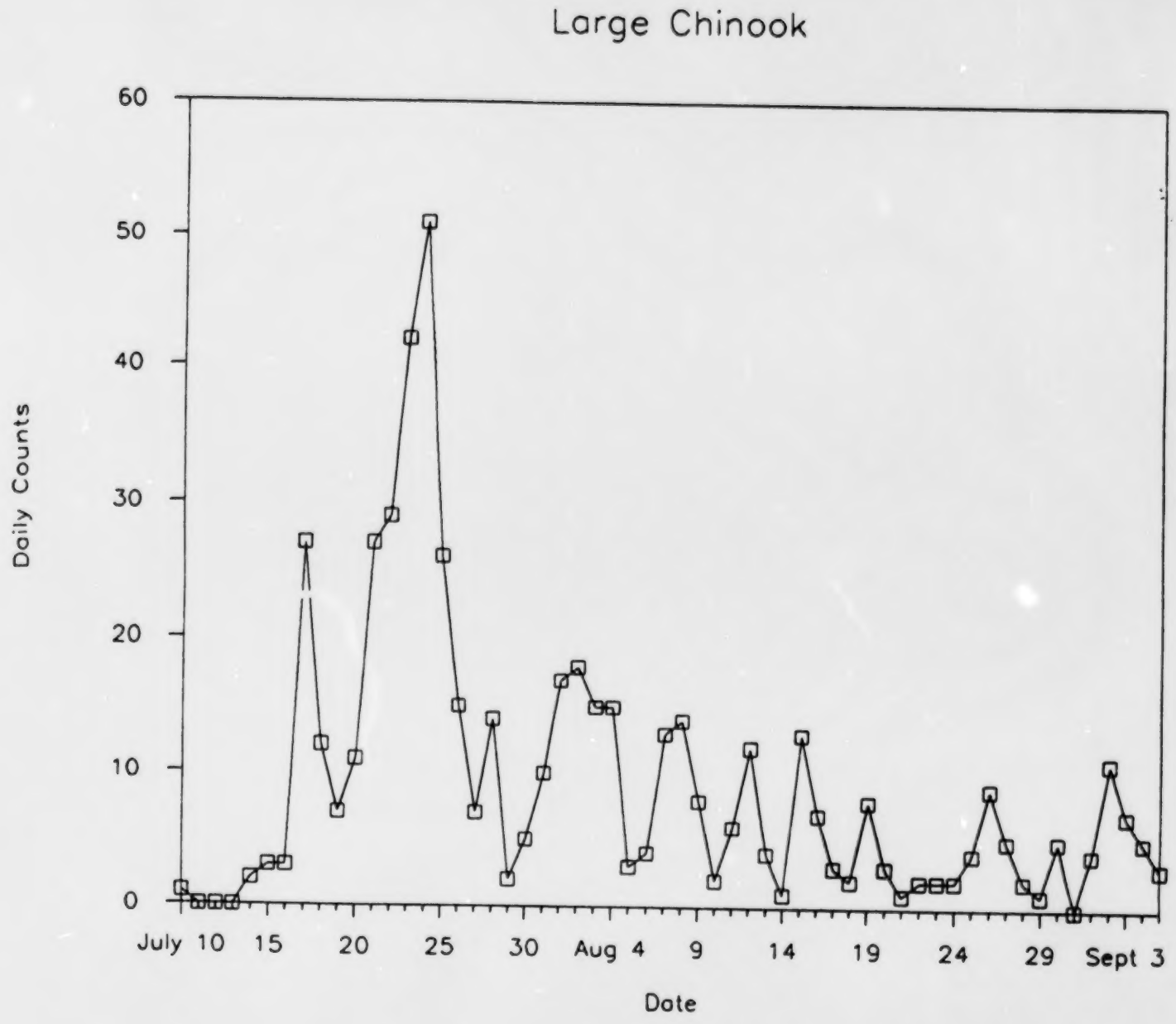

Figure 4. Daily Meziadin Fishway counts of large chinook, 1991.

Table IV

Biological information obtained from sockeye samples collected at the Meziadin Fishway, 1991.

Date	Sample #	Sex	Hypural Length	Nose/Fork Length	Age	Circuli Count
July 14	1	M	500	610	5_3	(7+17)
	2	M	495	600	4_2	
	3	M	460	560	5_3	(11+13)
	4	F	485	600	5_2	
	5	F	525	640	5_2	
	6	M	445	550	4_2	
	7	M	475	595	4_2	
	8	M	545	680	3M	
	9	F	480	590	5_2	
	10	F	470	575	4_2	
	11	F	505	620	5_2	
	12	M	450	560	4_2	
	13	M	515	640	5_2	
	14	F	480	585	4_2	
	15	F	450	545	4_2	
	16	F	475	565	5_3	(6+18)
	17	M	480	590	5_3	(7+17)
	18	F	480	575	5_3	(8+13)
	19	F	480	585	4_2	
	20	M	470	575	4_2	
	21	M	485	600	4_2	
	22	F	485	600	5_3	(9+15)
	23	F	510	610	4_2	
	24	F	440	545	5_3	(8+15)
	25	F	530	640	4_2	
July 16	26	F	480	585	5_2	
	27	F	475	575	2M	
	28	M	530	640	5_2	
	29	M	515	640	5_2	
	30	F	445	545	5_3	(8+13)
	31	F	480	580	4_2	
	32	F	515	630	5_2	
	33	M	480	590	5_3	(7+14)
	34	M	525	635	5_2	
	35	F	470	575	4_2	
	36	F	475	570	4_2	
	37	M	480	590	4_2	
	38	F	480	580	4_2	
	39	M	470	575	4_2	
	40	M	505	620	2M	
	41	F	465	565	5_3	(8+17)
	42	F	500	600	6_3	
	43	M	455	570	4_2	
	44	F	490	590	4_2	

Table IV (cont')

Biological information obtained from sockeye samples collected at the Meziadin Fishway, 1991.

Date	Sample #	Sex	Hypural Length	Nose/Fork Length	Age	Circuli Count
July 16	45	M	515	630	5_3	(8+9)
	46	F	530	640	2M	
	47	F	505	600	5_3	(7+17)
	48	M	470	580	4_2	
	49	F	455	555	4_2	
	50	F	480	590	5_3	(9+20)
July 16	51	F	540	660	5_2	
	52	M	470	590	4_2	
	53	F	485	595	4_2	
	54	F	465	570	4_2	
	55	M	475	590	5_3	(7+15)
	56	M	465	575	5_3	(8+18)
	57	F	480	590	4_2	
	58	M	500	620	4_2	
	59	F	460	565	4_2	
	60	F	500	610	4_2	
	61	M	490	600	5_3	(5+18)
	62	F	505	615	6_3	
	63	F	515	630	6_3	
	64	F	490	590	4_2	
	65	F	500	605	4_2	
	66	F	470	575	4_2	
	67	F	500	615	5_3	(8+14)
	68	M	495	615	5_2	
	69	M	490	590	4_2	
	70	M	560	690	5_2	
	71	M	565	670	5_2	
	72	M	460	560	2m	
	73	M	530	645	5_2	
	74	M	550	665	3m	
	75	F	455	560	5_3	(7+16)
July 16	76	M	450	565	4_2	
	77	M	515	640	6_3	
	78	F	465	585	4_2	
	79	M	455	585	5_3	(7+17)
	80	F	460	570	5_3	(6+18)
	81	F	470	590	5_2	
	82	M	490	590	5_3	(8+18)
	83	F	490	595	4_2	
	84	F	475	580	4_2	
	85	F	465	555	2M	
	86	F	465	565	4_2	
	87	M	480	595	5_3	(6+19)
	88	F	470	570	5_3	(8+21)

Table IV (cont')

Biological information obtained from sockeye samples collected at the Meziadin Fishway, 1991.

Date	Sample #	Sex	Hypural Length	Nose/Fork Length	Age	Circuli Count
July 16	89	M	485	590	4_2	
	90	F	475	580	5_3	(8+19)
	91	F	465	570	5_3	(7+18)
	92	M	500	620	4_2	
	93	M	490	595	5_3	(7+17)
	94	M	440	540	4_2	
	95	M	500	610	4_2	
	96	F	480	580	4_2	
	97	F	465	575	4_2	
	98	F	465	570	4_2	
	99	F	495	600	5_2	
	100	M	545	670	6_3	
	101	M	485	600	4_2	
	102	M	485	590	5_3	(9+18)
	103	F	465	570	4_2	
	104	M	500	620	5_3	(7+16)
	105	M	490	600	2M	
	106	M	485	600	4_2	
	107	F	480	600	5_2	
	108	M	500	610	5_3	(7+15)
	109	F	465	570	4_2	
	110	F	475	585	4_2	
	111	F	470	590	4_2	
	112	M	470	570	4_2	
	113	M	485	610	4_2	
	114	M	505	640	5_2	
	115	F	430	520	4_2	
	116	F	440	540	4_2	
	117	F	455	555	5_3	(6+18)
July 16	118	F	475	575	4_2	
	119	F	455	555	4_2	
	120	F	455	550	2M	
	121	M	495	605	2M	
	122	F	465	565	4_2	
	123	M	575	705	5_2	
	124	M	540	675	5_2	
	125	F	475	575	4_2	
July 17	126	M	530	650	6_3	
	127	M	490	610	4_2	
	128	F	490	595	4_2	
	129	F	465	560	2M	
	130	F	450	550	4_2	
	131	M	485	595	5_3	(7+18)
	132	F	465	565	5_3	(7+18)

Table IV (cont')

Biological information obtained from sockeye samples collected at the Meziadin Fishway, 1991.

Date	Sample #	Sex	Hypural Length	Nose/Fork Length	Age	Circuli Count
July 17	133	F	515	620	5_2	
	134	F	465	570	4_2	
	135	M	480	590	4_2	
	136	F	440	545	4_2	
	137	F	440	560	5_3	(8+16)
	138	M	490	600	2M	
	139	F	460	560	4_2	
	140	F	495	600	2M	
	141	F	470	570	5_3	(6+18)
	142	F	485	595	4_2	
	143	F	470	575	5_3	(5+16)
	144	F	520	620	5_2	
	145	M	465	570	4_2	
	146	F	480	590	5_2	
	147	M	510	620	4_2	
	148	F	460	560	4_2	
	149	M	515	630	4_2	
	150	F	495	595	5_3	(6+15)
	151	F	455	550	4_2	
	152	F	575	710	5_2	
	153	M	475	590	4_2	
	154	F	465	570	4_2	
	155	M	455	560	5_3	(8+18)
	156	F	485	590	4_2	
	157	M	520	630	5_2	
	158	M	505	615	5_3	(8+16)
	159	F	480	575	4_2	
	160	F	465	560	4_2	
	161	M	500	610	5_3	(8+16)
	162	M	520	650	5_2	
	163	F	565	680	4_2	
	164	F	485	585	4_2	
	165	F	460	555	4_2	
	166	M	560	675	5_2	
	167	M	475	585	4_2	
	168	M	550	675	6_3	
	169	F	485	590	5_3	(10+14)
	170	M	500	610	5_3	(9+17)
	171	F	445	540	5_3	(8+13)
	172	F	460	555	4_2	
	173	F	495	595	4_2	
	174	M	475	575	4_2	
	175	M	510	625	5_3	(7+17)
	176	M	470	575	5_3	(8+13)

Table IV (cont')

Biological information obtained from sockeye samples collected at the Meziadin Fishway, 1991.

Date	Sample #	Sex	Hypural Length	Nose/Fork Length	Age	Circuli Count
July 19	177	F	450	545	5_3	(8+14)
	178	M	445	540	4_2	
	179	M	485	585	4_2	
	180	F	480	585	5_3	(7+15)
	181	F	460	560	4_2	
	182	M	565	690	5_2	
	183	F	455	565	5_3	(6+17)
	184	F	490	610	5_2	
	185	F	420	530	4_2	
	186	M	500	600	5_3	(4+18)
	187	F	460	560	5_3	(7+12)
	188	F	495	590	5_3	(7+17)
	189	F	500	600	4_2	
	190	M	500	615	4_2	
	191	F	430	540	4_2	
	192	F	495	590	5_3	(8+17)
	193	F	460	575	5_3	(7+13)
	194	M	485	605	4_2	
	195	F	455	570	5_2	
	196	F	440	550	5_3	(9+13)
	197	F	565	570	5_3	(10+13)
	198	M	455	555	5_3	(7+15)
	199	M	445	550	5_3	(9+19)
	200	F	565	570	2M	
July 20	201	F	525	630	6_3	
	202	F	475	570	5_3	(6+16)
	203	M	500	615	5_2	
	204	F	460	560	4_2	
	205	F	510	625	5_2	
	206	F	470	570	4_2	
	207	M	535	650	6_3	
	208	M	465	565	4_2	
	209	M	475	590	4_2	
	210	F	4355	555	5_3	(7+17)
	211	M	500	610	6_3	
	212	M	490	610	5_2	
	213	F	460	560	5_3	(7+16)
	214	F	495	595	4_2	
	215	F	590	605	5_3	(7+20)
	216	M	470	575	5_3	(7+17)
	217	F	505	610	6_3	
	218	F	460	555	2M	
	219	F	480	585	4_2	
	220	F	470	570	4_2	

Table IV (cont')

Biological information obtained from sockeye samples collected at the Meziadin Fishway, 1991.

Date	Sample #	Sex	Hypural Length	Nose/Fork Length	Age	Circuli Count
July 20	221	F	465	565	2M	
	222	F	440	535	5_3	(9+15)
	223	M	550	675	5_2	
	224	F	490	590	4_2	
	225	F	490	590	5_3	(6+19)
July 21	226	F	420	515	5_3	(8+16)
	227	M	460	560	4_2	
	228	F	430	530	4_2	
	229	F	505	610	4_2	
	230	F	450	545	4_2	
	231	M	500	605	4_2	
	232	M	580	605	4_2	
	233	M	510	625	5_3	(11+15)
	234	F	480	585	4_2	
	235	F	460	560	4_2	
	236	F	455	555	4_2	
	237	F	440	550	5_3	(7+14)
	238	F	500	630	6_3	
	239	M	450	550	4_2	
	240	M	490	600	4_2	
	241	M	480	585	4_2	
	242	M	505	605	4_2	
	243	F	505	620	3M	
	244	M	515	630	5_3	(9+14)
	245	F	535	655	3M	
	246	F	490	590	5_3	(9+14)
	247	F	510	630	5_3	(7+20)
	248	F	510	615	4_2	
	249	M	495	610	5_3	(8+15)
	250	F	480	580	2M	
July 22	251	F	470	560	5_3	(6+17)
	252	F	500	595	6_3	
	253	M	560	570	5_3	(7+14)
	254	M	530	650	5_2	
	255	F	480	575	5_3	(8+15)
	256	M	480	600	5_3	(6+16)
	257	F	490	590	5_3	(6+16)
	258	F	445	540	4_2	
	259	F	450	550	5_3	(8+15)
	260	F	470	570	4_2	
	261	F	480	580	4_2	
	262	M	455	570	4_2	
	263	F	480	600	4_2	
	264	F	485	595	5_3	(7+14)

Table IV (cont')

Biological information obtained from sockeye samples collected at the Meziadin Fishway, 1991.

Date	Sample #	Sex	Hypural Length	Nose/Fork Length	Age	Circuli Count
July 22	265	M	495	615	4_2	
	266	F	440	535	4_2	
	267	M	475	575	4_2	
	268	M	460	570	4_2	
	269	M	510	635	5_2	
	270	M	450	560	4_2	
	271	F	470	570	5_3	(9+14)
	272	F	470	570	4_2	
	273	M	470	590	4_2	
	274	M	465	570	2M	
	275	F	485	585	4_2	
July 23	276	F	445	545	5_3	(8+14)
	277	F	460	555	2M	
	278	M	470	575	4_2	
	279	F	475	580	5_3	(8+13)
	280	F	440	540	4_2	
	281	F	465	565	2M	
	282	M	440	530	4_2	
	283	F	460	565	5_3	(10+9)
	284	F	470	565	4_2	
	285	F	495	605	5_2	
	286	M	500	615	4_2	
	287	F	485	590	4_2	
	288	F	460	570	2M	
	289	M	490	610	4_2	
	290	M	450	560	4_2	
	291	F	490	595	4_2	
	292	M	480	585	2M	
	293	M	540	670	3M	
	294	F	455	550	5_3	(7+17)
	295	M	500	605	4_2	
	296	F	470	575	2M	
	297	F	460	560	4_2	
	298	M	480	590	2M	
	299	F	450	545	4_2	
	300	F	500	605	4_2	
July 24	301	M	470	570	4_2	
	302	F	475	570	4_2	
	303	M	450	550	4_2	
	304	F	450	550	4_2	
	305	F	455	550	4_2	
	306	F	460	565	5_3	(8+18)
	307	M	460	570	5_3	(4+19)
	308	F	490	590	4_2	

Table IV (cont')

Biological information obtained from sockeye samples collected at the Meziadin Fishway, 1991.

Date	Sample #	Sex	Hypural Length	Nose/Fork Length	Age	Circuli Count
July 24	309	M	470	570	5_3	(5+17)
	310	M	430	525	4_2	
	311	M	535	660	6_3	
	312	M	485	600	5_3	(5+16)
	313	F	470	565	4_2	
	314	F	445	535	4_2	
	315	F	490	590	5_3	(6+19)
	316	M	505	630	5_2	
	317	M	500	610	5_3	(6+14)
	318	F	460	570	5_3	(8+17)
	319	M	500	605	5_3	(8+12)
	320	M	445	550	5_3	(6+15)
	321	F	490	590	4_2	
	322	F	460	550	4_2	
	323	F	475	575	4_2	
	324	M	465	570	5_3	(5+17)
	325	F	475	580	4_2	
July 25	326	M	490	605	4_2	
	327	F	445	540	5_3	(7+16)
	328	F	515	630	6_3	
	329	F	480	580	4_2	
	330	M	430	510	2M	
	331	F	445	535	4_2	
	332	M	480	580	4_2	
	333	M	460	560	2M	
	334	F	480	575	5_3	(7+17)
	335	F	505	605	5_3	(7+17)
	336	M	440	545	5_3	(8+16)
	337	M	510	615	5_2	
	338	F	440	530	2M	
	339	F	465	560	4_2	
	340	M	520	635	5_3	(6+15)
	341	M	535	665	5_2	
	342	M	515	620	4_2	
	343	M	495	600	5_3	(9+15)
	344	M	515	630	5_2	
	345	F	455	560	5_3	(7+17)
	346	M	460	545	4_2	
	347	F	410	490	4_2	
	348	F	450	555	4_2	
	349	F	460	550	4_2	
	350	M	495	595	5_3	(6+18)
July 26	351	M	515	625	5_3	
	352	F	460	550	4_2	

Table IV (cont')

Biological information obtained from sockeye samples collected at the Meziadin Fishway, 1991.

Date	Sample #	Sex	Hypural Length	Nose/Fork Length	Age	Circuli Count
July 26	353	F	450	550	4_2	
	354	F	450	540	4_2	
	355	F	465	560	5_3	(11+11)
	356	M	465	570	4_2	
	357	F	455	550	4_2	
	358	F	465	555	RG	
	359	F	465	550	4_2	
	360	F	475	570	5_3	(5+18)
	361	F	445	540	5_3	(5+15)
	362	F	490	590	5_2	
	363	F	475	580	4_2	
	364	M	475	590	5_3	(6+16)
	365	M	490	605	4_2	
	366	M	440	565	4_2	
	367	F	460	550	2M	
	368	F	430	535	6_3	
	369	M	465	560	5_3	(7+16)
	370	F	440	540	4_2	
	371	F	545	535	2M	
	372	M	460	565	2M	
	373	F	440	550	5_3	(6+15)
	374	M	475	570	2M	
	375	M	485	590	6_3	
July 27	376	M	450	560	4_2	
	377	M	560	680	6_3	
	378	M	400	485	4_2	
	379	F	465	555	5_3	(7+18)
	380	F	435	540	4_2	
	381	M	530	650	4_2	
	382	F	390	480	4_2	
	383	F	445	535	4_2	
	384	F	460	570	4_2	
	385	F	530	635	6_3	
	386	F	465	560	5_3	(8+16)
	387	M	515	630	4_2	
	388	M	590	710	6_3	
	389	M	485	600	4_2	
	390	M	540	655	6_3	
	391	M	460	580	4_2	
	392	M	500	605	5_3	(5+19)
	393	M	495	610	5_3	(8+14)
	394	F	450	550	5_3	(10+16)
	395	M	485	600	4_2	
	396	M	450	550	5_3	(8+14)

Table IV (cont')

Biological information obtained from sockeye samples collected at the Meziadin Fishway, 1991.

Date	Sample #	Sex	Hypural Length	Nose/Fork Length	Age	Circuli Count
July 27	397	F	420	520	5_3	(8+16)
	398	F	445	540	5_3	(7+17)
	399	F	470	570	5_3	(6+15)
	400	F	435	535	4_2	
July 28	401	M	445	550	4_2	
	402	F	445	540	4_2	
	403	F	445	555	4_2	
	404	F	480	590	4_2	
	405	M	550	680	6_3	
	406	M	515	645	6_3	
	407	F	460	565	4_2	
	408	M	520	620	4_2	
	409	M	510	635	5_3	(6+17)
	410	F	460	550	4_2	
	411	F	475	580	4_2	
	412	M	465	560	5_3	(7+15)
	413	M	455	550	5_3	(6+14)
	414	F	450	540	4_2	
	415	M	510	630	6_3	
	416	F	545	535	4_2	
	417	F	465	560	5_3	(8+18)
	418	F	480	580	4_2	
	419	M	470	570	4_2	
	420	F	450	545	4_2	
	421	F	475	565	4_2	
	422	F	485	580	5_3	(7+16)
	423	F	490	580	4_2	
	424	F	510	605	4_2	
	425	F	470	560	5_3	(6+12)
July 29	426	F	450	545	4_2	
	427	F	465	560	4_2	
	428	F	480	590	2M	
	429	F	440	535	5_3	(6+16)
	430	F	450	550	4_2	
	431	F	480	580	2M	
	432	M	540	650	6_3	
	433	M	490	615	2M	
	434	F	420	515	2M	
	435	F	470	560	3M	
	436	F	480	585	5_3	(8+15)
	437	F	490	590	4_2	
	438	F	465	555	4_2	
	439	M	480	580	5_3	(7+16)
	440	F	450	555	4_2	

Table IV (cont')

Biological information obtained from sockeye samples collected at the Meziadin Fishway, 1991.

Date	Sample #	Sex	Hypural Length	Nose/Fork Length	Age	Circuli Count
July 29	441	F	430	520	5_3	(9+8)
	442	F	485	580	4_2	
	443	F	450	545	4_2	
	444	F	475	565	4_2	
	445	F	480	580	4_2	
	446	M	460	570	4_2	
	447	F	435	525	4_2	
	448	M	435	535	5_3	(5+15)
	449	F	475	570	4_2	
	450	F	440	530	4_2	
July 30	451	M	450	550	4_2	
	452	F	475	570	2M	
	453	F	480	590	4_2	
	454	M	530	650	5_2	
	455	M	540	645	5_3	(7+15)
	456	F	480	580	4_2	
	457	M	510	620	4_2	
	458	M	495	595	5_3	(8+19)
	459	M	510	630	4_2	
	460	F	435	530	4_2	
	461	F	455	540	4_2	
	462	M	470	585	5_3	(6+15)
	463	F	465	550	2M	
	464	F	485	575	4_2	
	465	F	480	605	4_2	
	466	M	520	625	5_3	(6+17)
	467	M	520	650	3M	
	468	F	510	610	5_2	
	469	M	530	650	5_2	
	470	M	500	600	5_3	(7+14)
	471	M	525	655	5_2	
	472	F	465	565	2M	
	473	F	445	540	4_2	
	474	F	430	525	4_2	
	475	M	495	600	5_3	(5+13)
July 31	476	F	475	575	4_2	
	477	F	430	525	2M	
	478	F	460	560	4_2	
	479	M	405	505	4_2	
	480	M	525	640	6_3	
	481	F	475	575	5_2	
	482	M	560	680	5_3	(7+20)
	483	F	415	505	4_2	
	484	F	445	545	4_2	

Table IV (cont')

Biological information obtained from sockeye samples collected at the Meziadin Fishway, 1991.

Date	Sample #	Sex	Hypural Length	Nose/Fork Length	Age	Circuli Count
July 31	485	M	430	530	4_2	
	486	F	465	560	5_3	(7+18)
	487	F	485	600	2M	
	488	F	460	555	4_2	
	489	F	485	585	6_3	
	490	F	460	555	4_2	
	491	M	520	630	5_3	(8+15)
	492	F	475	575	5_3	(8+17)
	493	F	485	585	4_2	
	494	F	445	540	5_3	(9+17)
	495	M	495	595	5_3	(6+18)
	496	M	495	600	5_3	(6+17)
	497	M	545	670	6_3	
	498	M	375	480	4_3	
	499	M	430	515	4_2	
	500	M	415	515	4_2	
Aug 1	501	F	440	535	5_3	(8+16)
	502	M	440	535	5_3	(8+16)
	503	M	485	585	4_2	
	504	F	445	540	4_2	
	505	F	470	565	4_2	
	506	F	450	550	6_3	
	507	F	415	510	4_2	
	508	M	465	565	4_2	
	509	M	505	615	4_2	
	510	M	475	575	5_3	(6+13)
	511	F	475	570	5_3	(7+15)
	512	M	540	650	5_2	
	513	M	415	520	4_2	
	514	F	485	585	4_2	
	515	F	510	610	5_3	(6+17)
	516	F	465	560	4_2	
	517	M	485	585	4_2	
	518	F	495	590	5_3	(7+19)
	519	M	480	580	6_3	
	520	M	535	640	6_3	
	521	M	475	575	4_2	
	522	M	445	545	5_3	(6+15)
	523	F	565	465	4_2	
	524	F	430	520	4_2	
	525	F	445	540	5_3	(8+13)
Aug 2	526	F	440	550	4_2	
	527	F	470	570	4_2	
	528	F	465	570	5_3	(8+15)

Table IV (cont')

Biological information obtained from sockeye samples collected at the Meziadin Fishway, 1991.

Date	Sample #	Sex	Hypural Length	Nose/Fork Length	Age	Circuli Count
Aug 2	529	M	500	600	4_2	
	530	F	475	570	4_2	
	531	F	430	525	4_2	
	532	M	455	550	5_3	(6+21)
	533	M	470	570	4_2	
	534	F	470	560	4_2	
	535	M	400	500	4_2	
	536	F	460	550	4_2	
	537	M	455	560	5_3	(6+16)
	538	F	455	555	5_3	(6+17)
	539	M	535	650	5_2	
	540	M	475	575	4_2	
	541	F	450	545	4_2	
	542	F	460	555	5_3	(5+15)
	543	M	480	580	5_3	(7+15)
	544	F	515	620	3M	
	545	M	480	580	2M	
	546	F	475	575	4_2	
	547	M	450	545	2M	
	548	F	490	595	5_3	(5+19)
	549	M	505	610	5_3	(6+18)
	550	F	440	535	5_3	(6+16)
Aug 3	551	F	445	550	5_3	(8+14)
	552	F	455	540	2M	
	553	F	475	565	5_3	(7+16)
	554	M	540	670	6_3	
	555	M	465	560	2M	
	556	M	450	560	4_2	
	557	F	480	570	4_2	
	558	F	430	510	2M	
	559	F	470	580	2M	
	560	F	480	580	5_3	(7+16)
	561	M	515	625	4_2	
	562	M	430	535	2M	
	563	M	485	590	2M	
	564	M	520	620	2M	
	565	F	470	575	4_2	
	566	M	525	630	5_2	
	567	F	535	635	5_3	(6+10)
	568	F	455	545	4_2	
	569	M	450	575	4_2	
	570	F	505	590	4_2	
	571	F	525	625	4_2	
	572	F	480	570	4_2	

Table IV (cont')

Biological information obtained from sockeye samples collected at the Meziadin Fishway, 1991.

Date	Sample #	Sex	Hypural Length	Nose/Fork Length	Age	Circuli Count
Aug 3	573	F	495	610	5_3	(7+18)
	574	F	510	605	2M	
	575	M	470	560	2M	
Aug 4	576	F	500	610	4_2	
	577	F	470	560	5_3	(6+16)
	578	F	505	595	4_2	
	579	F	450	550	4_2	
	580	F	480	590	4_2	
	581	M	560	675	5_2	
	582	M	590	600	4_2	
	583	F	455	565	4_2	
	584	M	525	645	4_2	
	585	F	470	550	4_2	
	586	F	460	560	5_3	(6+18)
	587	M	460	560	4_2	
	588	M	440	540	4_2	
	589	F	485	595	4_2	
	590	F	450	555	5_3	(8+12)
	591	F	440	530	4_2	
Aug 5	592	M	480	590	5_3	(7+17)
	593	F	455	530	4_2	
	594	F	455	530	5_3	(7+15)
	595	F	425	525	4_2	
	596	F	470	565	4_2	
	597	F	460	560	5_3	(8+18)
	598	M	505	610	5_3	(7+15)
	599	F	430	530	2M	
	600	F	495	590	2M	
Aug 6	601	M	575	715	6_3	
	602	F	550	655	6_3	
	603	F	490	590	4_2	
	604	F	485	585	2M	
	605	F	440	540	5_3	(7+13)
	606	M	530	640	6_3	
	607	F	450	550	5_3	(6+15)
	608	M	525	645	2M	
	609	M	410	510	4_2	
	610	F	465	555	5_3	(8+16)
	611	F	485	580	4_2	
	612	M	520	625	5_3	(8+18)
	613	M	535	640	5_3	(8+17)
	614	M	450	550	4_2	
	615	F	455	545	4_2	
	616	M	515	620	5_3	(6+16)

Table IV (cont')

Biological information obtained from sockeye samples collected at the Meziadin Fishway, 1991.

Date	Sample #	Sex	Hypural Length	Nose/Fork Length	Age	Circuli Count
Aug 6	617	M	500	620	4_2	
	618	M	480	580	4_2	
	619	F	460	555	5_3	(8+18)
	620	F	450	550	4_2	
	621	M	475	575	4_2	
	622	M	520	620	3M	
	623	M	560	680	6_3	
	624	M	465	565	2M	
	625	M	450	550	2M	
Aug 7	626	M	520	640	4_2	
	627	F	500	600	4_2	
	628	M	445	540	5_3	(7+18)
	629	M	410	515	4_2	
	630	F	415	495	4_2	
	631	M	570	680	6_3	
	632	F	470	570	5_3	(6+17)
	633	M	480	585	4_2	
	634	F	465	555	5_3	(5+15)
	635	F	505	600	4_2	
	636	F	530	640	4_2	
	637	M	510	610	5_3	(7+16)
	638	F	545	640	6_3	
	639	M	520	645	4_2	
	640	F	515	610	5_3	(9+15)
	641	M	460	560	4_2	
	642	F	470	560	5_3	(9+17)
	643	M	565	665	5_2	
	644	M	490	605	4_2	
	645	M	550	665	6_3	
	646	F	460	550	5_3	(7+13)
	647	F	475	565	5_3	(7+16)
	648	F	520	640	5_3	(10+17)
	649	F	510	600	5_3	(6+17)
	650	M	475	570	2M	
Aug 8	651	F	515	635	5_2	
	652	M	435	520	4_2	
	653	F	490	580	5_3	(7+14)
	654	M	470	560	4_2	
	655	F	440	520	4_2	
	656	M	400	495	4_2	
	657	F	480	570	4_2	
	658	M	520	620	5_3	(8+16)
	659	M	520	640	2M	
	660	M	535	640	4_2	

Table IV (cont')

Biological information obtained from sockeye samples collected at the Meziadin Fishway, 1991.

Date	Sample #	Sex	Hypural Length	Nose/Fork Length	Age	Circuli Count
Aug 8	661	M	515	620	5_3	(6+15)
	662	F	520	620	5_3	(9+15)
	663	F	470	570	5_3	(5+17)
	664	F	440	525	4_2	
	665	F	490	585	5_3	(5+17)
	666	F	440	530	2M	
	667	M	465	570	2M	
	668	F	445	535	5_3	(8+15)
	669	M	490	590	2M	
	670	M	525	660	5_2	
	671	F	460	540	4_2	
	672	F	510	620	6_3	
	673	M	500	615	5_3	(7+14)
	674	M	465	565	2M	
	675	F	490	580	5_3	(6+12)
Aug 9	676	M	510	625	5_3	(7+12)
	677	F	495	590	4_2	
	678	F	455	555	5_3	(6+15)
	679	M	555	660	5_2	
	680	F	500	595	5_3	(6+12)
	681	M	530	655	2M	
	682	F	510	605	4_2	
	683	F	490	580	4_2	
	684	F	475	575	4_2	
	685	M	435	520	5_3	(6+18)
	686	M	540	640	6_3	
	687	F	480	585	5_3	(5+14)
	688	M	555	670	3M	
	689	F	500	590	5_3	(9+13)
	690	F	445	545	5_3	(5+17)
	691	F	460	550	5_3	(5+15)
	692	F	570	700	6_3	
	693	F	475	580	5_3	(5+13)
	694	M	555	665	5_3	(9+18)
	695	F	510	605	4_2	
	696	F	490	590	4_2	
	697	F	480	580	5_3	(7+15)
	698	F	455	550	4_2	
	699	M	565	690	6_3	
	700	M	585	705	RG	
Aug 10	701	M	530	660	5_3	(6+18)
	702	F	430	520	5_3	(8+12)
	703	M	520	640	5_3	(7+15)
	704	F	540	645	5_2	

Table IV (cont')

Biological information obtained from sockeye samples collected at the Meziadin Fishway, 1991.

Date	Sample #	Sex	Hypural Length	Nose/Fork Length	Age	Circuli Count
Aug 10	705	F	505	600	5_3	(6+17)
	706	F	480	585	4_2	
	707	F	470	565	5_3	(7+13)
	708	F	485	580	4_2	
	709	F	460	555	5_3	(8+17)
	710	M	565	680	6_3	
	711	M	550	660	6_3	
	712	M	510	630	5_3	(8+18)
	713	M	535	640	5_2	
	714	M	505	610	5_3	(8+16)
	715	F	460	555	4_2	
	716	F	460	555	4_2	
	717	F	525	625	4_2	
	718	M	490	590	5_3	(6+14)
	719	M	555	670	3M	
	720	F	460	560	5_3	(7+16)
	721	F	465	550	4_2	
	722	M	500	600	5_3	(8+17)
	723	F	510	600	5_3	(7+14)
	724	M	490	590	2M	
	725	F	490	585	5_3	(7+14)
Aug 11	726	F	460	560	4_2	
	727	M	525	640	4_2	
	728	F	510	620	5_3	(6+15)
	729	M	465	570	4_2	
	730	F	440	530	4_2	
	731	F	455	545	4_2	
	732	F	485	585	5_3	(7+16)
	733	F	455	545	5_3	(7+15)
	734	M	450	540	4_2	
	735	M	560	685	6_3	
	736	F	495	600	4_2	
	737	F	445	530	2M	
	738	M	510	620	5_3	(6+16)
	739	F	505	605	5_3	(8+16)
	740	F	455	540	5_3	(6+21)
	741	F	490	600	4_2	
	742	F	455	545	4_2	
	743	F	455	550	6_3	
	744	F	450	550	4_2	
	745	M	545	660	6_3	
	746	F	480	580	4_2	
	747	M	480	580	4_2	
	748	M	550	665	5_2	

Table IV (cont')

Biological information obtained from sockeye samples collected at the Meziadin Fishway, 1991.

Date	Sample #	Sex	Hypural Length	Nose/Fork Length	Age	Circuli Count
Aug 11	749	F	505	605	5_3	(7+16)
	750	F	495	590	4_2	
Aug 12	751	F	470	580	4_2	
	752	M	510	610	4_2	
	753	F	440	535	4_2	
	754	F	465	565	5_3	(6+18)
	755	F	535	645	6_3	
	756	F	450	545	4_2	
	757	F	515	610	5_3	(6+14)
	758	F	480	565	4_2	
	759	F	625	630	5_2	
	760	F	485	580	5_3	(5+17)
	761	M	565	685	5_2	
	762	M	500	615	4_2	
	763	M	560	680	5_2	
	764	F	505	595	4_2	
	765	F	440	540	4_2	
	766	F	460	550	4_2	
	767	M	580	700	3M	
	768	M	530	650	6_3	
	769	F	440	520	4_2	
	770	F	490	580	5_3	(9+18)
	771	M	505	610	4_2	
	772	F	480	575	4_2	
	773	M	445	540	4_2	
	774	F	455	540	5_3	(9+15)
	775	F	480	565	4_2	
Aug 13	776	F	515	620	4_2	
	777	F	585	705	5_2	
	778	F	465	550	4_2	
	779	M	425	510	4_2	
	780	F	430	515	5_3	(6+17)
	781	F	500	600	5_3	(6+16)
	782	M	495	595	4_2	
	783	F	460	560	4_2	
	784	F	530	630	5_3	(7+16)
	785	M	500	605	5_3	(7+17)
	786	M	410	510	4_2	
	787	F	540	635	5_3	(7+17)
	788	F	475	565	5_3	(5+15)
	789	M	510	630	6_3	
	790	M	525	635	4_2	
	791	F	480	565	5_3	(8+17)
	792	F	555	670	5_3	(7+16

Table IV (cont')

Biological information obtained from sockeye samples collected at the Meziadin Fishway, 1991.

Date	Sample #	Sex	Hypural Length	Nose/Fork Length	Age	Circuli Count
Aug 13	793	M	490	590	5_3	(6+15)
	794	F	500	615	5_2	
	795	F	505	595	4_2	
	796	F	515	610	5_3	(8+14)
	797	M	530	645	5_3	(6+19)
	798	F	485	585	4_2	
	799	F	515	605	5_3	(6+19)
	800	F	460	545	4_2	
Aug 14	801	M	460	560	5_3	(5+13)
	802	F	490	590	5_3	(7+16)
	803	F	505	595	5_3	(9+17)
	804	F	435	520	4_2	
	805	M	405	485	4_2	
	806	F	470	560	4_2	
	807	F	500	610	4_2	
	808	F	490	580	4_2	
	809	M	570	685	6_3	
	810	M	470	570	5_3	(7+15)
	811	F	435	520	4_2	
	812	F	540	645	5_3	(7+13)
	813	F	520	620	5_3	(8+15)
	814	M	530	640	5_3	(5+18)
	815	F	530	640	4_2	
	816	F	455	540	4_2	
	817	M	480	580	5_3	(9+13)
	818	F	505	605	5_3	(9+15)
	819	F	480	580	5_3	(7+16)
	820	M	530	640	5_3	(7+18)
	821	F	505	600	5_3	(8+15)
	822	F	530	645	5_2	
	823	F	445	530	4_2	
	824	F	495	590	2M	
	825	F	475	575	2M	
Aug 15	826	F	485	580	5_3	(7+15)
	827	F	480	580	4_2	
	828	F	465	560	5_3	(8+16)
	829	F	455	540	4_2	
	830	M	500	600	5_3	(5+19)
	831	F	500	600	6_3	
	832	F	455	540	5_3	(6+16)
	833	F	550	660	6_3	
	834	F	560	670	6_3	
	835	M	510	620	5_3	(10+9)
	836	M	535	645	5_3	(6+14)

Table IV (cont')

Biological information obtained from sockeye samples collected at the Meziadin Fishway, 1991.

Date	Sample #	Sex	Hypural Length	Nose/Fork Length	Age	Circuli Count
Aug 15	837	M	430	520	4_2	
	838	M	535	640	5_3	(6+13)
	839	M	505	610	5_3	(8+19)
	840	F	510	610	6_3	
	841	F	490	585	4_2	
	842	F	460	550	5_3	(9+10)
	843	M	475	580	4_2	
	844	F	500	600	5_3	(6+17)
	845	F	510	610	4_2	
	846	F	520	620	5_3	(8+16)
	847	F	490	590	5_3	(8+13)
	848	F	475	570	5_3	(8+15)
	849	F	445	530	5_3	(8+15)
	850	F	440	530	4_2	
Aug 16	851	F	560	675	5_2	
	852	F	465	560	5_3	(5+17)
	853	F	470	570	5_3	(8+17)
	854	F	485	585	5_3	(8+13)
	855	F	475	570	5_3	(6+17)
	856	M	495	605	5_3	(8+13)
	857	F	495	585	5_2	
	858	M	500	600	4_2	
	859	F	475	570	4_2	
	860	F	560	675	5_2	
	861	M	490	595	5_3	(8+14)
	862	F	500	605	5_3	(8+16)
	863	F	610	730	6_3	
	864	M	410	510	5_3	(8+16)
	865	F	475	560	5_3	(6+18)
	866	F	450	545	4_2	
	867	F	435	535	5_3	(6+12)
	868	F	490	580	5_3	(6+16)
	869	F	520	630	5_3	(7+13)
	870	M	515	625	5_3	(6+17)
	871	F	495	590	5_3	(8+17)
	872	F	555	660	5_2	
	873	F	505	605	4_2	
	874	M	405	490	4_2	
	875	M	520	640	5_3	(7+18)
Aug 17	876	M	510	630	4_2	
	877	M	505	610	5_3	(7+15)
	878	F	520	620	5_3	(6+15)
	879	F	515	615	5_3	(8+15)
	880	F	460	560	5_3	(8+16)

Table IV (cont')

Biological information obtained from sockeye samples collected at the Meziadin Fishway, 1991.

Date	Sample #	Sex	Hypural Length	Nose/Fork Length	Age	Circuli Count
Aug 17	881	F	550	640	5_3	(7+20)
	882	M	510	630	4_2	
	883	F	530	630	2M	
	884	F	505	600	4_2	
	885	F	480	590	5_3	(7+17)
	886	M	390	490	4_2	
	887	M	505	615	5_3	(7+16)
	888	F	585	705	5_2	
	889	M	520	630	4_2	
	890	M	515	620	5_3	(8+18)
	891	F	465	560	5_3	
	892	F	515	625	5_3	(7+17)
	893	F	490	595	5_3	(8+15)
	894	F	445	535	4_2	
	895	F	480	585	4_2	
	896	M	465	565	5_3	(6+19)
	897	F	450	550	4_2	
	898	F	515	620	5_3	(6+18)
	899	F	465	560	5_3	(5+16)
	900	F	510	610	5_3	(7+17)
Aug 18	901	M	580	700	5_2	
	902	F	560	680	6_3	
	903	M	560	695	5_2	
	904	F	455	550	5_3	(6+17)
	905	M	540	665	6_3	
	906	F	540	650	5_3	(7+16)
	907	F	500	605	5_3	(7+16)
	908	F	475	570	5_3	(6+16)
	909	F	490	580	5_3	(7+16)
	910	M	565	680	5_2	
	911	F	485	585	5_3	(8+17)
	912	M	505	600	5_3	(7+19)
	913	F	485	575	4_2	
	914	F	470	560	4_2	
	915	M	470	570	5_3	(8+15)
	916	M	480	590	5_3	(7+17)
	917	F	525	630	5_3	(5+17)
	918	M	495	595	5_3	(8+15)
	919	F	500	600	5_3	(9+14)
	920	M	525	630	5_3	(8+14)
	921	F	500	590	4_2	
	922	F	495	600	5_3	(8+15)
	923	M	490	600	5_3	(7+14)
	924	M	480	585	4_2	

Table IV (cont')

Biological information obtained from sockeye samples collected at the Meziadin Fishway, 1991.

Date	Sample #	Sex	Hypural Length	Nose/Fork Length	Age	Circuli Count
Aug 18	925	M	460	555	4_2	
Aug 19	926	F	480	590	4_2	
	927	M	505	610	5_3	(6+15)
	928	F	480	570	4_2	
	929	F	490	590	5_3	(6+14)
	930	F	500	600	5_3	(9+16)
	931	F	460	555	4_2	
	932	F	470	560	4_2	
	933	M	500	595	5_3	(8+14)
	934	M	420	520	4_2	
	935	F	515	620	5_3	(6+17)
	936	F	475	555	4_2	
	937	M	510	610	5_2	
	938	M	520	620	4_2	
	939	M	450	550	4_2	
	940	F	460	560	5_3	(9+15)
	941	M	495	605	5_3	(9+20)
	942	F	520	620	5_2	
	943	F	425	505	4_2	
	944	F	450	550	5_3	(8+16)
	945	M	495	595	5_2	
	946	F	495	585	4_2	
	947	M	505	605	4_2	
	948	M	480	590	5_3	(5+14)
	949	F	480	570	3M	
	950	F	500	600	2M	
Aug 20	951	F	450	550	5_3	(5+15)
	952	F	500	600	5_3	(5+15)
	953	F	470	560	4_2	
	954	F	505	605	5_3	(7+15)
	955	M	490	605	5_3	(9+17)
	956	M	510	615	5_3	(8+12)
	957	M	420	505	2M	
	958	F	555	655	5_2	
	959	M	465	580	4_2	
	960	M	510	615	5_3	(6+18)
	961	M	520	625	4_2	
	962	M	505	625	6_3	
	963	F	510	605	5_3	(7+15)
	964	F	510	605	5_3	(7+15)
	965	M	460	570	5_3	(7+14)
	966	F	535	635	5_3	(7+15)
	967	M	485	585	5_3	(5+16)
	968	M	460	580	5_3	(7+14)

Table IV (cont')

Biological information obtained from sockeye samples collected at the Meziadin Fishway, 1991.

Date	Sample #	Sex	Hypural Length	Nose/Fork Length	Age	Circuli Count
Aug 20	969	M	500	600	4_2	
	970	F	520	620	5_2	
	971	M	500	620	5_3	(5+18)
	972	M	515	620	4_2	
	973	M	515	615	4_2	
	974	F	520	630	5_2	
	975	F	470	570	5_3	(6+19)
Aug 21	976	F	445	540	4_2	
	977	F	510	620	5_3	(7+17)
	978	M	440	545	4_2	
	979	F	500	600	5_3	(7+16)
	980	M	385	480	4_2	
	981	F	455	550	5_3	(8+17)
	982	F	470	570	4_2	
	983	F	470	580	5_3	(7+17)
	984	M	435	535	4_2	
	985	M	520	630	5_3	(6+17)
	986	F	490	590	5_2	
	987	F	435	540	4_2	
	988	M	535	645	5_3	(6+16)
	989	M	455	545	4_2	
	990	M	495	610	5_3	(9+15)
	991	F	480	580	4_2	
	992	F	495	605	2M	
	993	F	470	570	5_3	(6+16)
	994	F	510	620	4_2	
	995	M	505	610	5_3	(6+16)
	996	F	520	625	3M	
	997	F	510	620	5_3	(6+14
	998	M	545	660	3M	
	999	F	450	540	4_2	
	1000	M	545	660	6_3	

Table V

Biological information obtained from sockeye samples collected at Bonnie Creek, 1991.

Date	Sample #	Sex	Hypural Length (mm)	Nose/Fork Length (mm)	Age	Circuli Count
Sept 10	1	M	526	655	5_2	
	2	M	497	638	5_2	
	3	M	483	533	5_2	
	4	M	508	664	5_2	
	5	M	522	677	5_2	
	6	M	451	582	4_2	
	7	F	407	523	5_3	(8+8)
	8	F	437	562	5_3	(6+11)
	9	M	539	705	5_2	
	10	M	500	657	5_2	
	11	M	533	686	5_2	
	12	M	518	673	5_2	
	13	M	508	668	5_2	
	14	M	506	643	5_2	
	15	M	483	630	5_2	
	16	M	427	541	4_2	
	17	M	407	532	5_3	(7+8)
	18	M	432	552	5_3	
	19	M	508	661	5_2	
	20	M	501	656	5_2	
	21	M	428	557	5_3	(6+10)
	22	M	517	673	5_2	
	23	M	518	668	5_2	
	24	M	418	548	4_2	
	25	M	507	658	RS	
	26	M	437	558	5_3	
	27	F	463	582	5_2	
	28	F	449	549	5_3	
	29	F	426	538	5_3	
	30	F	512	637	5_2	
	31	F	428	522	5_3	(6+12)
	32	F	452	544	5_2	
	33	F	466	592	5_2	
	34	F	447	552	4_2	
	35	F	466	577	5_2	
	36	F	473	593	5_2	
	37	F	494	612	5_2	
	38	F	506	619	5_2	
	39	F	507	632	5_2	
	40	M	494	640	5_2	
	41	M	436	556	5_3	(8+6)
	42	M	467	592	5_3	
	43	M	503	664	5_2	
	44	M	501	661	5_2	
	45	M	456	589	5_3	

Table V (cont')

Biological information obtained from sockeye samples collected at Bonnie Creek, 1991.

Date	Sample #	Sex	Hypural Length (mm)	Nose/Fork Length (mm)	Age	Circuli Count
Sept 10	46	M	481	623	5_2	
	47	M	512	653	5_2	
	48	M	496	643	5_2	
	49	M	411	534	5_2	
	50	M	501	648	5_2	
	51	M	496	634	5_2	
	52	M	459	603	5_2	
	53	M	434	571	4_2	
	54	M	491	624	5_2	
	55	M	466	612	5_2	
	56	M	477	621	5_3	(7+11)
	57	M	406	538	4_2	
	58	M	416	543	4_2	
	59	M	492	638	5_3	(8+12)
	60	M	487	539	5_2	
	61	M	511	644	5_2	
	62	M	373	478	4_2	
	63	M	423	552	4_2	
	64	M	502	647	5_2	
	65	M	527	683	5_2	
	66	M	503	667	5_2	
	67	M	422	544	5_2	
	68	F	463	584	5_2	
	69	F	463	567	5_2	
	70	F	433	528	4_2	
	71	F	472	600	5_2	
	72	F	488	633	5_2	
	73	F	477	606	4_3	
	74	F	491	608	5_2	
	75	F	487	626	5_2	
	76	F	501	642	5_2	
	77	F	427	531	5_2	
	78	F	448	544	5_2	
	79	F	406	497	4_2	
	80	F	476	600	5_2	
	81	F	481	600	5_2	
	82	F	465	571	5_3	
	83	F	432	532	5_2	
	84	F	438	547	5_3	
	85	M	457	593	5_2	
	86	M	472	616	5_2	
	87	M	426	563	5_3	(7+11)
	88	M	482	639	5_2	
	89	M	496	634	5_2	
	90	M	413	537	5_3	

Table V (cont')

Biological information obtained from sockeye samples collected at Bonnie Creek, 1991.

Date	Sample #	Sex	Hypural Length (mm)	Nose/Fork Length (mm)	Age	Circuli Count
Sept 10	91	M	414	533	4_2	
	92	M	473	677	5_2	
	93	F	417	526	4_2	
	94	F	473	593	5_2	
	95	F	452	553	5_2	
	96	F	462	581	5_2	
	97	F	464	583	5_2	
	98	F	456	561	6_3	
	99	F	473	588	5_2	
	100	F	456	557	5_2	

Table VI

Biological information obtained from sockeye samples collected at Bowser Lake, 1991.

Date	Sample #	Sex	Hypural Length (mm)	Nose/Fork Length (mm)	Age	Circuli Count
Sept 10	1	F	436	548	5_3	(6+9)
	2	M	421	526	4_2	
	3	M	441	557	4_2	
	4	M	472	608	5_2	
	5	M	501	640	5_2	
	6	M	523	638	6_3	
	7	F	441	551	5_3	(7+9)
	8	M	457	568	5_3	(7+10)
	9	M	442	548	4_2	
	10	M	497	612	6_3	
	11	M	469	596	6_3	
	12	M	482	617	5_2	
	13	M	473	610	5_2	
	14	M	482	603	6_3	
	15	M	474	606	6_3	
	16	M	478	605	5_2	
	17	F	443	548	4_2	
	18	M	493	610	6_3	
	19	F	521	655	RG	
	20	M	492	618	5_2	
	21	F	461	590	6_3	
	22	F	501	632	6_3	
	23	M	423	532	4_2	
	24	M	422	520	5_3	
	25	M	484	617	6_3	
	26	F	446	556	5_3	(5+8)
	27	F	426	533	5_3	(7+10)
	28	M	477	600	5_2	
	29	F	483	592	6_3	
	30	F	537	659	6_3	
	31	F	500	634	5_2	
	32	F	483	618	5_2	
	33	M	513	662	6_3	
	34	M	507	656	6_3	
	35	F	482	612	5_3	(6+8)
	36	F	417	524	4_2	
	37	F	476	618	-2	
	38	M	509	668	5_2	
	39	F	483	632	5_2	
	40	M	541	676	6_3	
	41	F	394	506	4_2	
	42	M	422	536	5_3	(5+11)
	43	F	456	579	4_2	
	44	M	476	522	5_3	(5+12)
	45	M	474	624	5_2	

Table VI (cont')

Biological information obtained from sockeye samples collected at Bowser Lake, 1991.

Date	Sample #	Sex	Hypural Length (mm)	Nose/Fork Length (mm)	Age	Circuli Count
Sept 10	46	M	456	584	5_3	(6+11)
	47	M	512	653	6_3	
	48	M	517	678	6_3	
	49	M	508	651	6_3	
	50	M	473	600	2M	
Sept 11	51	M	446	569	5_3	(6+9)
	52	M	491	631	5_2	
	53	M	443	544	4_2	
	54	M	501	632	6_3	
	55	F	447	572	4_2	
	56	M	473	633	4_2	
	57	M	441	574	4_2	
	58	M	507	655	6_3	
	59	M	477	610	6_3	
	60	M	418	546	4_2	
	61	M	506	678	5_2	
	62	M	523	691	6_3	
	63	M	359	456	5_3	(5+9)
	64	M	543	673	6_3	
	65	M	500	636	5_2	
	66	M	441	571	5_3	(4+9)
	67	M	395	494	4_2	
	68	M	451	579	5_3	(4+10)
	69	M	423	551	5_3	
	70	M	385	487	5_3	(4+11)
	71	M	467	607	5_2	
	72	M	377	483	4_2	
	73	M	496	638	6_3	
	74	M	476	616	4_2	
	75	M	530	710	6_3	
	76	M	400	500	5_3	(6+7)
	77	M	490	640	6_3	
	78	M	510	660	6_3	
	79	M	470	600	6_3	
	80	M	465	585	4_2	
	81	M	480	620	4_2	
	82	M	450	580	4_2	
	83	M	445	555	5_3	(5+8)
	84	M	480	620	5_2	
	85	M	460	590	5_3	(4+9)
	86	M	510	670	6_3	
	87	M	440	560	4_2	
	88	M	500	650	S_2	
	89	M	510	670	6_3	
	90	M	460	570	5_3	(5+11)

Table VI (cont')

Biological information obtained from sockeye samples collected at Bowser Lake, 1991.

Date	Sample #	Sex	Hypural Length (mm)	Nose/Fork Length (mm)	Age	Circuli Count
Sept 11	91	M	450	570	4_2	
	92	M	510	650	5_2	
	93	M	510	630	5_2	
	94	M	450	595	5_3	(5+10)
	95	M	540	675	6_3	
	96	M	495	640	5_2	
	97	M	485	635	5_3	
	98	M	525	680	6_3	
	99	M	530	660	5_2	
	100	M	485	610	5_2	
	101	M	500	635	5_2	
	102	M	500	630	6_3	
	103	M	515	650	5_3	(6+7)
	104	M	545	700	6_3	
	105	M	460	585	RG	
	106	M	550	640	S_2	
	107	M	400	510	S_3	
	108	M	465	585	5_3	(4+12)
	109	M	400	510	S_3	
	110	M	440	570	4_2	
	111	M	470	600	S_2	
	112	F	485	610	3M	
	113	F	445	530	5_3	(4+12)
	114	F	495	600	S_2	
	115	F	500	620	5_2	
	116	F	540	650	6_3	
	117	F	510	620	4_2	
	118	F	500	610	5_2	
	119	F	450	540	5_3	(6+11)
	120	F	540	685	6_3	
	121	F	500	610	5_2	
	122	F	455	570	3M	
	123	F	480	580	6_3	
	124	F	385	480	4_2	
	125	F	485	600	6_3	
	126	F	500	610	6_3	
	127	F	500	615	5_2	
	128	F	465	540	RG	
	129	F	445	530	2M	
	130	F	515	610	6_3	
	131	F	510	620	RG	
	132	F	440	540	5_3	(5+9)
	133	F	480	589	6_3	
	134	F	370	470	4_2	
	135	F	365	455	2M	

Table VI (cont')

Biological information obtained from sockeye samples collected at Bowser Lake, 1991.

Date	Sample #	Sex	Hypural Length (mm)	Nose/Fork Length (mm)	Age	Circuli Count
Sept 11	136	F	420	510	RG	
	137	F	480	580	5_3	(7+9)
	138	F	450	540	5_3	(6+8)
	139	F	470	580	6_3	
	140	F	500	610	5_2	
	141	F	395	470	5_3	(5+7)
	142	F	530	645	6_3	
	143	F	510	610	6_3	
	144	F	510	610	5_2	
	145	F	400	485	4_2	
	146	F	450	525	4_2	
	147	F	480	585	6_3	
	148	F	520	625	5_2	
	149	F	530	630	3M	
	150	F	510	625	3M	
	151	F	525	640	5_2	
	152	F	510	630	6_3	
	153	F	460	570	S_3	
	154	F	435	535	4_2	
	155	F	435	540	S_2	
	156	M	500	620	6_3	
	157	M	500	630	6_3	
	158	M	450	570	S_2	
	159	M	450	560	4_2	
	160	M	450	580	S_3	
	161	M	500	630	5_2	
	162	M	465	600	5_3	(6+13)
	163	M	480	600	5_2	
	164	M	475	595	6_3	
	165	M	500	630	5_3	(5+8)
	166	M	500	655	6_3	
	167	M	545	695	S_3	
	168	M	445	575	5_3	(6+9)
	169	M	515	655	5_2	
	170	M	500	640	5_2	
	171	M	480	600	5_3	(4+9)
	172	M	550	680	S_2	
	173	M	525	655	5_2	
	174	M	515	635	S_2	
	175	M	460	580	5_3	(6+12)
	176	M	540	680	6_3	
	177	M	450	570	S_3	
	178	M	525	680	S_3	
	179	M	510	635	5_2	
	180	M	500	640	6_3	

Table VI (cont')

Biological information obtained from sockeye samples collected at Bowser Lake, 1991.

Date	Sample #	Sex	Hypural Length (mm)	Nose/Fork Length (mm)	Age	Circuli Count
Sept 11	181	M	495	645	6_3	
	182	M	500	650	4_2	
	183	M	360	455	W	
	184	M	470	590	4_2	

Table VII

Biological information obtained from sockeye samples collected at Damdochax Lake, 1991.

Date	Sample #	Sex	Hypural Length (mm)	Nose/Fork Length (mm)	Age	Circuli Count
Sept 9	1	M	445	580	4_2	
	2	M	490	620	5_2	
	3	M	435	540	4_2	
	4	M	445	570	4_2	
	5	M	460	600	4_2	
	6	M	515	680	5_2	
	7	M	520	660	5_2	
	8	M	425	550	4_2	
	9	F	415	560	4_2	
	10	F	465	580	4_2	
	11	F	505	615	5_2	
	12	F	440	545	4_2	
	13	M	455	585	4_2	
	14	M	500	660	5_2	
	15	M	430	555	4_2	
	16	M	510	650	5_2	
	17	M	505	670	5_2	
	18	M	470	615	4_2	
	19	M	450	575	4_2	
	20	M	440	560	4_2	
	21	M	510	650	6_3	
	22	M	500	645	5_2	
	23	M	515	670	4_2	
	24	M	450	565	3M	
	25	M	520	655	5_2	
	26	M	400	515	4_2	
	27	F	440	585	4_2	
	28	F	510	645	W	
	29	F	460	580	S_2	
	30	M	440	550	RG	
	31	M	410	505	RG	
	32	M	410	510	4_2	
	33	M	450	550	2M	
	34	M	470	585	5_2	
	35	M	475	575	4_2	
	36	M	465	575	4_2	
Sept 10	37	M	500	645	S_2	
	38	F	490	630	5_2	
	39	F	500	640	3m	
	40	F	515	665	3m	
	41	F	490	650	5_2	
	42	F	420	540	5_2	
	43	F	485	630	5_2	
	44	F	520	660	5_2	
	45	F	470	600	4_2	

Table VII (cont')

Biological information obtained from sockeye samples collected at Damdochax Lake, 1991.

Date	Sample #	Sex	Hypural Length (mm)	Nose/Fork Length (mm)	Age	Circuli Count
Sept 10	46	F	515	665	RG	
	47	F	450	555	W	
	48	F	410	510	W	
	49	F	435	540	2M	
	50	F	465	570	4_2	
	51	F	420	520	4_2	
	52	F	490	625	5_2	
	53	F	500	625	5_2	
	54	F	485	590	4_2	
	55	F	470	580	5_2	
	56	F	460	575	5_2	
	57	F	460	565	4_2	
	58	F	480	590	6_3	
	59	F	490	600	5_2	
	60	F	490	610	6_3	
	61	F	485	620	5_2	
	62	F	400	500	4_2	
	63	F	435	535	4_2	
	64	F	455	555	4_2	
	65	F	430	530	4_2	
	66	F	465	575	4_2	
	67	F	480	600	5_2	
	68	F	450	550	4_2	
	69	F	465	570	4_2	
	70	F	505	620	5_2	
	71	F	455	565	4_2	
	72	F	450	550	4_2	
	73	M	460	585	4_2	
	74	M	510	640	5_2	
	75	M	405	520	4_2	
	76	M	435	565	4_2	
	77	M	510	645	6_3	
	78	M	510	645	5_2	
	79	M	540	680	5_2	
	80	M	515	660	5_2	
	81	M	510	675	5_2	
	82	M	455	590	4_2	
	83	M	505	650	5_2	
	84	M	525	670	5_2	
	85	M	475	600	4_2	
	86	M	445	565	4_2	
	87	M	415	530	4_2	
	88	M	490	640	5_2	
	89	M	440	565	4_2	
	90	M	480	615	4_2	

Table VII (cont')

Biological information obtained from sockeye samples collected at Damdochax Lake, 1991.

Date	Sample #	Sex	Hypural Length (mm)	Nose/Fork Length (mm)	Age	Circuli Count
Sept 10	91	M	460	595	4_2	
	92	M	465	605	5_2	
	93	M	470	620	4_2	
	94	M	455	600	4_2	
	95	M	535	690	5_2	
	96	F	490	610	5_2	
	97	F	410	505	4_2	
	98	F	470	585	5_2	
	99	F	460	585	4_2	
	100	F	490	595	6_3	
	101	F	445	525	5_2	
	102	F	490	595	5_2	
	103	F	445	545	5_2	
	104	F	450	555	5_2	
	105	F	460	570	5_2	
	106	F	495	625	5_2	
	107	F	490	605	5_2	
	108	F	480	605	5_2	
	109	F	485	605	5_2	
	110	F	515	645	5_2	
	111	F	485	600	5_2	
	112	M	520	665	5_2	
	113	F	415	510	5_2	
	114	F	410	505	5_2	
	115	F	445	550	5_2	
	116	F	455	565	5_2	
	117	F	450	570	5_2	
	118	F	420	525	5_2	
	119	F	465	575	5_2	
	120	F	505	620	5_2	
	121	F	485	600	5_2	
	122	F	490	620	5_2	
	123	F	445	555	5_2	
	124	F	420	525	5_2	

Table VIII

Age composition information for sockeye salmon from Bonnie Creek, Damdochax and Bowser Lake's, and the Meziadin Fishway in 1991.

Date	Sex	4_2 #	4_2 %	4_3 #	4_3 %	5_2 #	5_2 %	5_3 #	5_3 %	6_3 #	6_3 %	Total
Bonnie Creek												
Sept 10	M	10	17.2			37	63.8	11	19			58
	F	4	10	1	2.5	27	67.5	7	17.5	1	2.5	40
Bowser Lake												
Sept 11	M	21	20			25	23.5	24	22.6	36	33.9	106
	F	12	24.5			10	20.4	11	22.5	16	32.6	49
Damdochax Lake												
Sept 9	M	27	55.1			20	40.8			2	4.1	49
	F	20	32.3			39	62.9			3	4.8	62
Meziadin												
	M	151	41.4	1	0.3	43	11.8	133	36.4	37	10.1	365
	F	273	49.8			37	6.7	214	39.1	24	4.4	548

Note: Any discrepency in the percentages are due to rounding error.

Table IX

Average length information for sockeye salmon sampled at Bonnie Creek, Damdochax and Bowser Lake's and the Meziadin Fishway, 1991.

		4_2		4_3		5_2		5_3		6_3	
Date	Sex	H.P	N/F	H.P	N/F	H.P	N/F	H.P	N/F	H.P	N/F
Bonnie Creek											
Sept 10	M	417	542			497	641	442	572		
	F	425	525	477	606	472	589	435	544	456	561
Bowser Lake											
Sept 11	M	445	568			495	631	448	567	505	646
	F	431	538			503	620	444	545	501	615
Damdochax Lake											
Sept 9	M	448	575			507	652			510	647
	F	446	556			471	588			486	598
Meziadin											
	M	473	577	375	480	534	652	492	598	538	656
	F	469	565			517	625	478	576	517	625

Note: H.P indicates the hypural to post-orbital length in millimeters.
N/F indicates the nose/fork length in millimeters.

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